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<p>89-251902/35 G02 CANO 13.01.88 CANON KK *JO 1182-379-A 13.01.88-JP-003748 (20.07.89) C09d-11 Ink jet recording liq. - comprising emulsion of oil phase dispersed in aq. medium contg. colourant C89-112143</p>	G(2-A4A, 5-F)
<p>Recording liq. comprises emulsion of oil phase dispersed in aq. medium contg. at least colourant. The concn. of calcium ion in the liq. is less than 4ppm. The oil phase contains pref. UV absorbing agent and/or antioxidant. The colour is pref. water-soluble dye or dispersion dye. ADVANTAGE - The recording liq. gives an image with improved waterproofness, because the oil acts as water repellent. Through controlling the concn. of calcium ion in appropriate range, the liq. has superior shelf stability, and the clogging of the orifice edge of printer is eliminated. In an example, Acid Blue 9 was dissolved in water, filtered with ultrafiltration device so as to remove inorganic salt, made to pass through a column packed with 'Dowex A-1' (RTM:ion exchange resin) so as to remove calcium ion and then dried up. To the emulsion of 'Cyanox 1212' (RTM:UV absorbing agent) 10g and butylbenzoate 80g dispersed in aq. soln. of PVA 5g in water 300g was added purified dye prepd. as above 15g and ethylene glycol 80g and agitated together for 2 hrs, so that recording liq. was obtd. (7pp</p>	Dwg.No.0/0)

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<p>89-058238/08 A97 E24 G02 MITU 02.07.87 MITSUBISHI CHEM IND KK *JO 1011-171-A 02.07.87-JP-165962 (13.01.89) C09d-11 Recording ink compsn. for ink jet recording - comprises dispersion of oleophilic dyes and N hydroxyalkyl-pyrrolidone etc. C89-025934</p>	<p>A(12-W7D) E(7-D2, 21-C10, 21-C16, 21-C18, 21-C20, 22-C, 25-A) G(2-A4A)</p>
<p>Compsn. comprises dye(s) of dispersion or oleophilic type and N- hydroxyalkyl-pyrrolidone or N-hydroxy alkoxyalkyl -pyrrolidone. The dye is e.g. C.I. Disperse Yellow-1, etc., C.I. Disperse Red-4, etc., C.I. Disperse Blue-1, etc., C.I. solvent Yellow-19, etc., C.I. Solvent Red-3, etc., C.I. Solvent Black-3, etc. It is used in an amt. of 0.5-12 wt. %. The pyrrolidone cpd. is pref. N-hydroxyethyl-, N- hydroxypropyl-, N-hydroxyethoxyethyl-, N-hydroxypropoxypropyl-, N-dihydroxyethoxy ethoxyethyl- pyrrolidone and used in an amt. of 10-80 wt. %. The compsn. is blended opt. with other medium (e.g. (di- or poly)-ethylene glycol, -propylene glycol or -butylene glycol or -butylene glycol, glycerol, ethylene glycol monomethyl ether, etc.). USE/ADVANTAGE - The ink compsn. is usable for ink jet recorder or as writing ink to provide images having high fastness, quick drying workability, high quality and high adhesion with the recording medium to prevent offsetting and spreading. When it is used for a ink jet recorder, it has quick response to signals, stable formation of droplets, stable injection and continuous workability for a long period. (4pp Dwg.No.0/0)</p>	

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